## \*ATENT COOPERATION TREATY \* /

TO: RICHARD MYERS JR. 424 CHURCH STREET SUITE 1800 NASHVILLE, TN 37219  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)  Date of mailing (day/month/year)  Applicant's or agent's file reference  11672/030335  PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)  Page of mailing (day/month/year) See paragraph 2 below						
NASHVILLE, TN 37219  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)  Date of mailing (day/month/year) 3 1 MAR 2005  Applicant's or agent's file reference  FOR FURTHER ACTION See paragraph 2 below						
Date of mailing (day/month/year) 31 MAR 2005  Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below						
Applicant's or agent's file reference  FOR FURTHER ACTION See paragraph 2 below						
See paragraph 2 below						
PCT/US04/33951 14 October 2004 (14.10.2004) 15 October 2003 (15.10.2003)  International Patent Classification (IPC) or both national classification and IPC						
IPC(7): G01N 24/00, 33/00, and US Cl.: 436/173, 86, 89, 135						
Applicant						
VANDERBILT UNIVERSITY						
1. This opinion contains indications relating to the following items:						
Box No. I Basis of the opinion						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention  Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Box No. VI Certain documents cited  Box No. VII Certain defects in the international application						
					Box No. VIII Certain observations on the international application	
					2. FURTHER ACTION	
					If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.	
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/ US  Authorized officer						
Mail Stop PCT, Atm: ISA/US Commissioner for Patents  Yelena G. Gakh, Ph.D.						
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1700						
Facsimile No. (703) 305-3230  Form PCT/ISA/237 (cover sheet) (January 2004)						

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/33951	

<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language it was filed, unless otherwise indicated under this item.</li> </ol>	in which					
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.16).	e, (b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary claimed invention, this opinion has been established on the basis of:	to the					
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
in written format						
in computer readable form						
c. time of filing/furnishing						
contained in international application as filed.						
filed together with the international application in computer readable form.						
furnished subsequently to this Authority for the purposes of search.						
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto have filed or furnished, the required statements that the information in the subsequent or additional copies is identical to the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	nas been that in					
4. Additional comments: .						

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/339:	5	]
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Box No. IV Lack of unity of invention							
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:  paid additional fees  paid additional fees under protest  not paid additional fees						
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant						
3.	to pay additional fees.  This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is						
	complied with						
	not complied with for the following reasons:						
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)						
4.	Consequently, this opinion has been established in respect of the following parts of the international application:						
	all parts.						
	the parts relating to claims Nos. 1-12 and 14-18						

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/33951

Box No	<ul> <li>V Reasoned statement under Rule applicability; citations and expla</li> </ul>	e 43 bis.1(a)(i) mations supp	with regard to novelty, orting such statement	inventive step or industrial				
1. Statement								
	Novelty (N)	Claims	1-12	YES				
		Claims		NO				
.•	Inventive step (IS)	Claims	1-12	YES				
	• • •	Claims	14-18	NO				
	Industrial applicability (IA)	Claims	1-12, 14-18	YES				
		Claims	NONE	NO				
1	ions and explanations:			2001) Eightean displaces a hair due				
composit	4-18 lack novelty under PCT Article 33(2) tion dissolved in water, comprising a pero swell known as a component of dyes.	?) as being antic xycarbonate (co	ipated by Fishman (US 5, 76)  1. 3, line 10) and protein or a	amino acid (col. 3, lines 25-40).				
Claim 14-18 lacks novelty under PCT Article 33(2) as being anticipated by JP 53035076.  JP 53035076 discloses a solution for preventing fiber goods from fading, comprising sodium percarbonate and an amino acid, glutamic acid in particular. A protein or lysine can be used in place of glutamic acid.								
Claims 1-12 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest MS analysis of proteins in the presence of peroxycarbonate.								
The clos	The closest art is the paper of several of the present inventors published in JACS on January 28, 2004. Therefore it is not considered a prior art for the instant application.							
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